

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 344-P-16-PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US98/22022	International filing date (day/month/year) 19 OCTOBER 1998	(Earliest) Priority Date (day/month/year) NONE
Applicant DRUMMOND, WILLIAM H.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (See Box I).
2. Unity of invention is lacking (See Box II).
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - filed with the international application.
 - furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - transcribed by this Authority.
4. With regard to the title,
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:

Figure No. _____

 - as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US98/22022

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : A61F 13/00

US CL : 424/443

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/443

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS

search terms: film, polymer, skin, evaporation, gel, fluid

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,247,547 A (MARKS) 27 January 1981, see entire document.	1-6
Y	US 4,533,540 A (BLANK) 06 August 1985, see entire document.	1-6
Y	US 4,826,677 A (MUELLER et al) 02 May 1989, see entire document.	1-6
Y	US 4,913,897 A (CHVAPIL et al) 03 April 1990, see entire document.	1-6
Y	US 5,013,769 A (MURRAY et al) 07 May 1991, see entire document.	1-6

Further documents are listed in the continuation of Box C.

See patent family annex.

•	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

18 MARCH 1999

Date of mailing of the international search report

01 APR 1999

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized Officer

GABRIELLE BROUILLETTE

Telephone No. (703) 308-1235

**CORRECTED
VERSION***

PCT

5000 6000 09/509 237



0000
Ke 00

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61F 13/00	A1	(11) International Publication Number: WO 00/23022 (43) International Publication Date: 27 April 2000 (27.04.00)
(21) International Application Number: PCT/US98/22022		(81) Designated States: AU, CA, CN, IL, JP, KR, MX, NO, RU, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
(22) International Filing Date: 19 October 1998 (19.10.98)		<i>See 20</i>
(71) Applicant (for all designated States except US): ZILA, INC. [US/US]; 5227 North 7th Street, Phoenix, AZ 85014-2800 (US).		Published <i>With international search report.</i>
(71)(72) Applicant and Inventor: ROSE, Seth, D. [US/US]; 613 E. Balboa Drive, Tempe, AZ 85282 (US).		RECEIVED
(72) Inventor; and		JUN 08 2001
(75) Inventor/Applicant (for US only): DRUMMOND, William, H. [US/US]; 104 Via Havre, Newport Beach, CA 92663 (US).		TECHNICAL 1600/2900
(74) Agent: DRUMMOND, William, H.; Drummond & Duckworth, Suite 500, 4590 MacArthur Boulevard, Newport Beach, CA 92660 (US).		

(54) Title: METHOD AND COMPOSITIONS FOR *IN SITU* FORMATION OF PROTECTIVE AND/OR MEDICATED FILMS ON BODY TISSUE

(57) Abstract

Methods and compositions for forming protective and/or medicated films on body tissue. Liquid compositions contain a hydrophobically modified polymer, other than an esterified lower-hydroxyalkyl-substituted cellulose, suspended or dissolved in a solvent. The modified polymer is soluble in the solvent but insoluble in body fluids. The compositions may optionally contain a separate medicinal component, i.e., one which is present in addition to any medications, if any, present in the solvent, in the modified polymer and in any other additive components such as flavors, skin penetrants, preservatives, other solvents for the additives, etc. A protective and/or medicated film is formed *in situ* upon body tissue by applying the liquid composition to the tissue and separating the solvent from the composition, e.g., by vaporization.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						